

# Singulation Machine

Twin Stage Super-speed Package Singulation System

## PS300

Now, with two independent stages, cutting and positioning can proceed in parallel. The result - a maximum dicing speed up to twice that previously possible! New connected handlers, shorten coordination time - bringing increased operation efficiency and substantial savings in processing time.



### ➔ Twin Cutting-stage Mechanisms and Independent Microscope Drive Mechanism

Patented

The new parallel spindle drive shaft with an independent microscope drive shaft - make simultaneous cutting and alignment operations possible. This combines with PS300's twin cutting stage mechanisms to bring unparalleled performance!

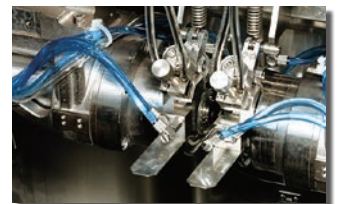
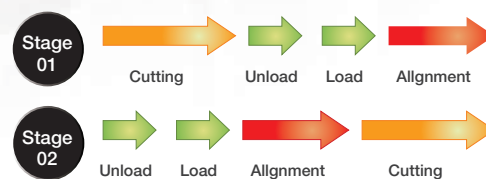
#### Previous models

■ Single chuck system



#### PS300

■ Twin chuck system



### ➔ Large Cutting Area

PS300's large cutting area ensures smooth scrap processing and easy maintenance.





## Wide, Bright Image Processing

The optical system comes with a wider visual field and higher, brighter resolution - greatly assisting image processing during operations such as alignment.

The results - reduced alignment error and shorter alignment time (Patent pending).



## 17-inch Touch Panel Monitor

The large touch screen provides enhanced visibility and easier operation.



## Main Options

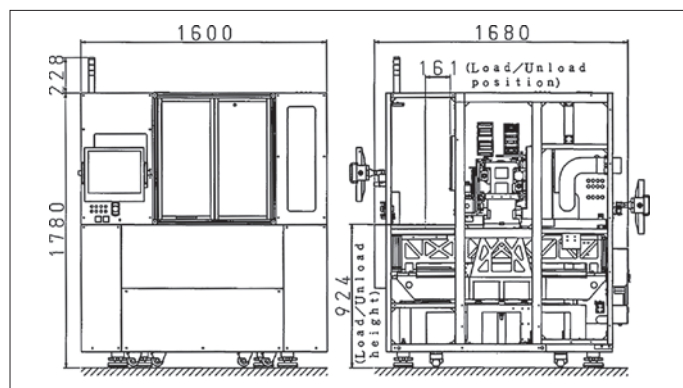
- Macro visual field optical system
- SECS function
- Transformer supporting multiple power supplies
- Resistivity and flow volume monitoring
- High-capacity vacuum pump

## USB Interface

The USB interface makes system upgrading fast and easy and streamlines data storage from the device.

## PS300 Specifications

Items	PS300
Applicable work size (Max)	300×100 mm 215 mm
Saw-jig size (Max)	Φ 332 mm
Spindle type	Air bearing type
Spindle output power	1.8kW
Rotation speed (Max)	60 min <sup>-1</sup>
Blade size	2 inch (3 inch option)
X-axis cutting speed	0.1 ~ 600mm/sec (X1,X2,both axes)
Y1,Y2,and Microscope-axis stroke	300 mm(Y1,Y2,both axes)
Y1,Y2,and Microscope-axis positioning accuracy	0.005/300 mm
Z1, Z2, and Focus-axis positioning accuracy	0.003/1 mm
Theta-axis rotation range	186°
Power supply	AC200 ~ 220V 3phase 50/60 Hz
Air supply	0.55 ~ 0.7 MPa 390 L/min
D.I.water supply	0.4 ~ 0.5 MPa 12 L/min
Spindle cooling water	0.3 ~ 0.5 MPa 3 L/min
Machine size (W×D×H mm)	1,600×1,680×1,780 mm



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